

FIG. 1

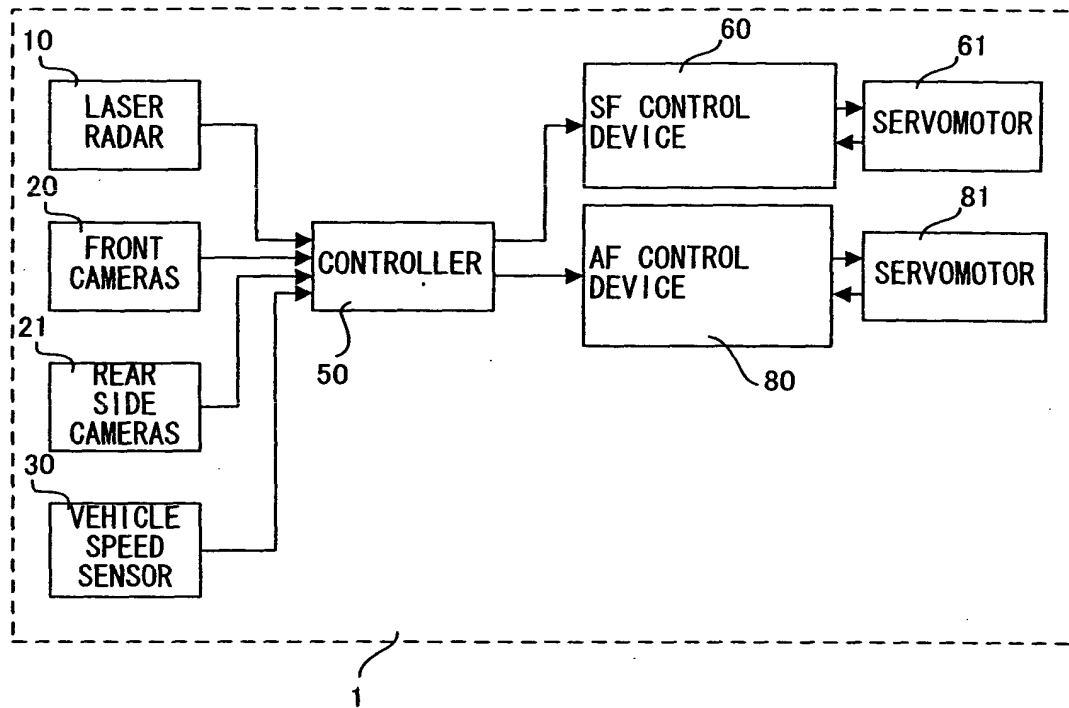


FIG. 2

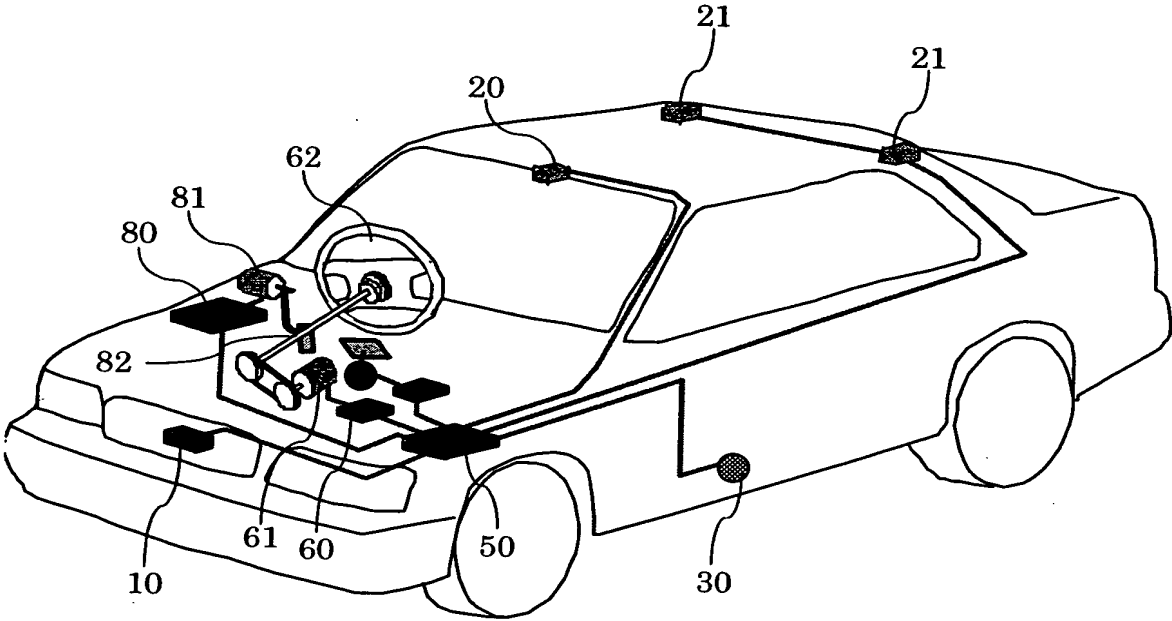


FIG. 3

INFORMATION CONVEYANCE MODE BEFORE AND AFTER STATUS TRANSITION			OUTPUT TIMING FOR INFORMATION CONVEYANCE UPON STATUS TRANSITION				DESIGN PRINCIPLE
BEFORE	→	AFTER	LONGITUDINAL		LATERAL		
			SIMULTANEOUS	DELAYED	SIMULTANEOUS	DELAYED	
A NO INFORMATION		LONGITUDINAL	○				INFORMATION CORRESPONDING TO A SINGLE DIRECTION IS COMMUNICATED PROMPTLY
B NO INFORMATION		LATERAL			○		INFORMATION CORRESPONDING TO A SINGLE DIRECTION IS COMMUNICATED PROMPTLY
C LONGITUDINAL		NO INFORMATION	○				INFORMATION CORRESPONDING TO A SINGLE DIRECTION IS COMMUNICATED PROMPTLY
D LATERAL		NO INFORMATION			○		INFORMATION CORRESPONDING TO A SINGLE DIRECTION IS COMMUNICATED PROMPTLY
E NO INFORMATION		LONGITUDINAL + LATERAL	○			○	STEERING RESPONSE OPTIMIZED BY PROMPTING ACCELERATOR PEDAL OPERATION FIRST TO LOWER
F LONGITUDINAL		LONGITUDINAL + LATERAL	○			○	STEERING RESPONSE OPTIMIZED BY PROMPTING ACCELERATOR PEDAL OPERATION FIRST TO LOWER
G LATERAL		LONGITUDINAL + LATERAL	○			○	STEERING RESPONSE OPTIMIZED BY PROMPTING ACCELERATOR PEDAL OPERATION FIRST TO LOWER
H LONGITUDINAL + LATERAL		NO INFORMATION		○	○		FREEDOM IN STEERING OPERATION IS FIRST INDICATED AND THEN ACCELERATOR PEDAL
I LONGITUDINAL + LATERAL		LONGITUDINAL		○	○		FREEDOM IN STEERING OPERATION IS FIRST INDICATED AND THEN ACCELERATOR PEDAL
J LONGITUDINAL + LATERAL		LATERAL		○	○		FREEDOM IN STEERING OPERATION IS FIRST INDICATED AND THEN ACCELERATOR PEDAL
K LONGITUDINAL		LATERAL		○	○		NEW RISK IS FIRST INDICATED
L LATERAL		LONGITUDINAL	○			○	NEW RISK IS FIRST INDICATED

FIG. 4

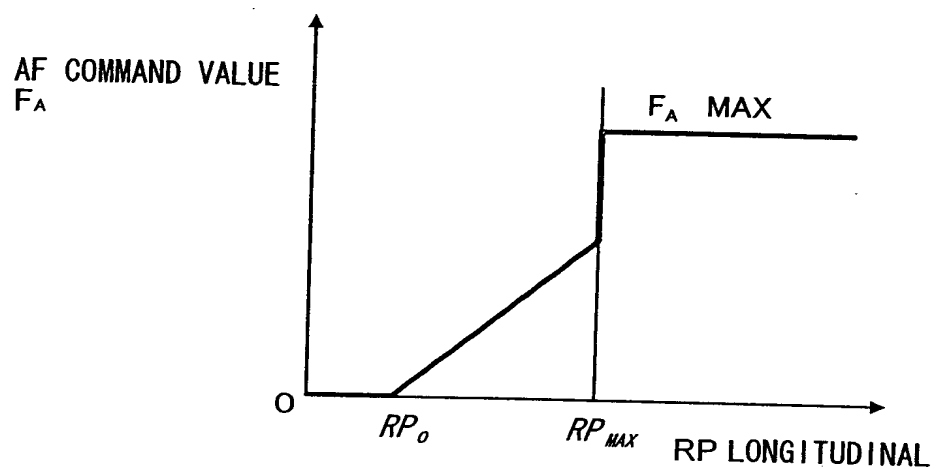
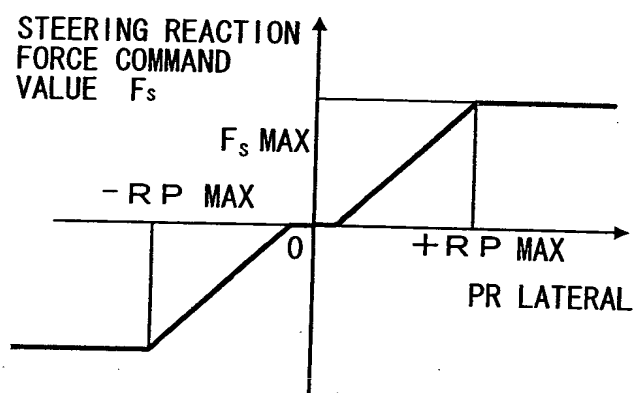


FIG. 5



TARGET OBSTACLE FOR LONGITUDINAL/LATERAL CONTROL
(PARKED VEHICLE)

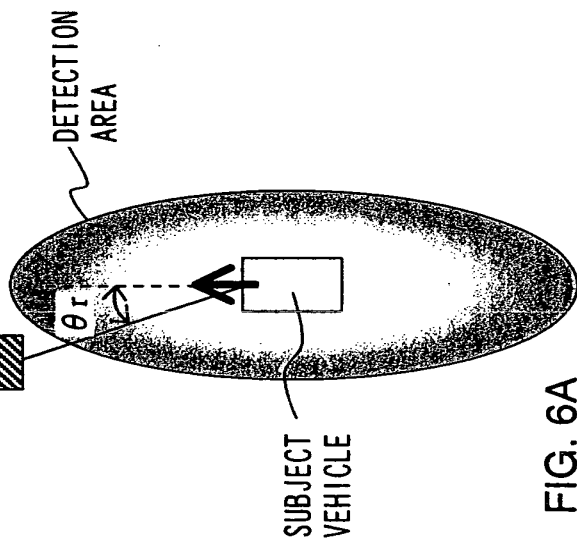


FIG. 6A

TARGET OBSTACLE FOR LONGITUDINAL/LATERAL CONTROL
(GUARDRAIL)

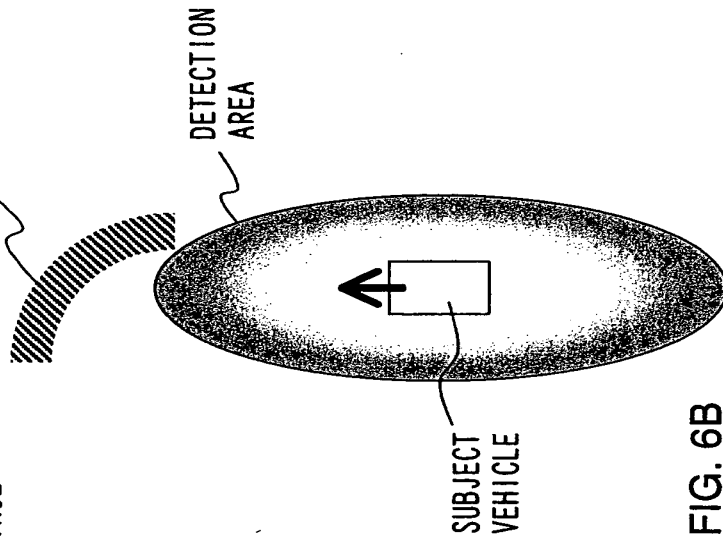


FIG. 6B

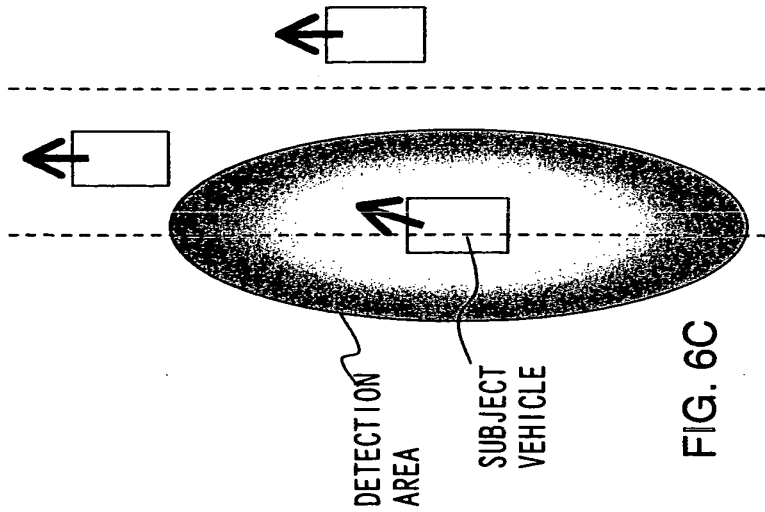


FIG. 6C

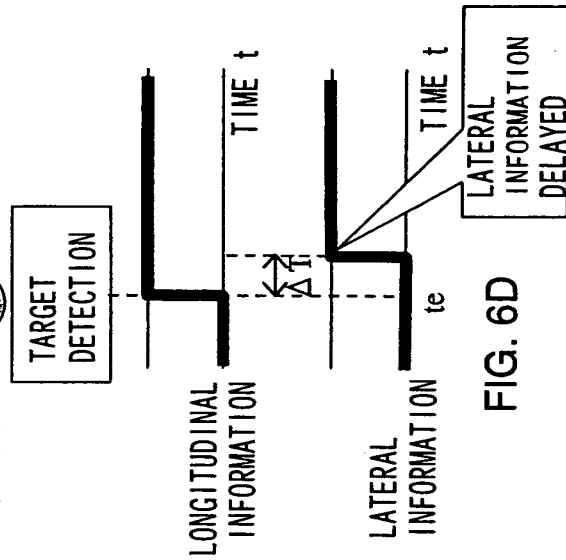


FIG. 6D

TARGET OBSTACLE FOR LONGITUDINAL/LATERAL CONTROL
(PARKED VEHICLE)

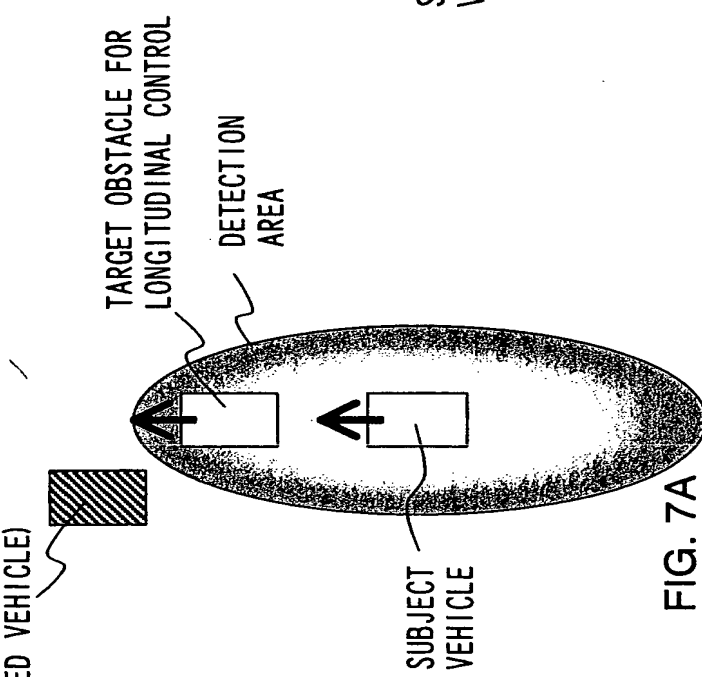


FIG. 7A

TARGET OBSTACLE FOR LONGITUDINAL/LATERAL CONTROL
(GUARDRAIL)

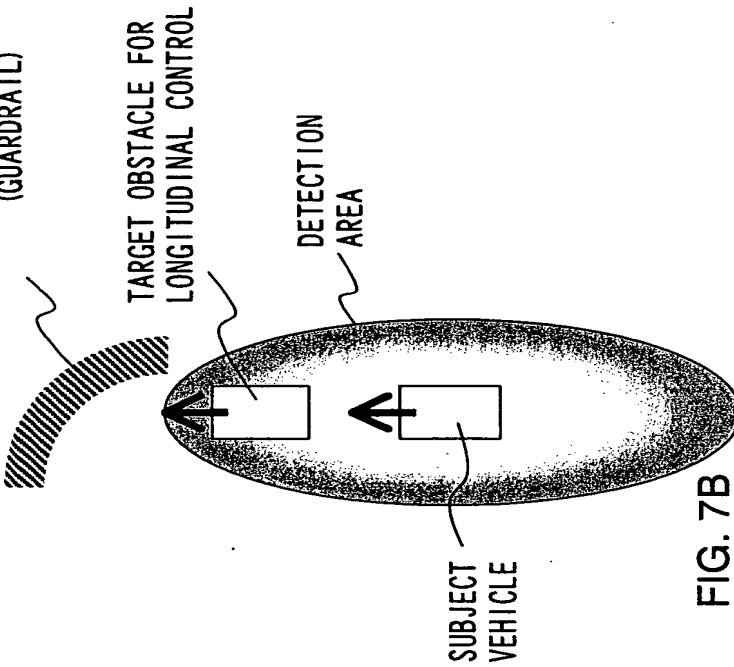


FIG. 7B

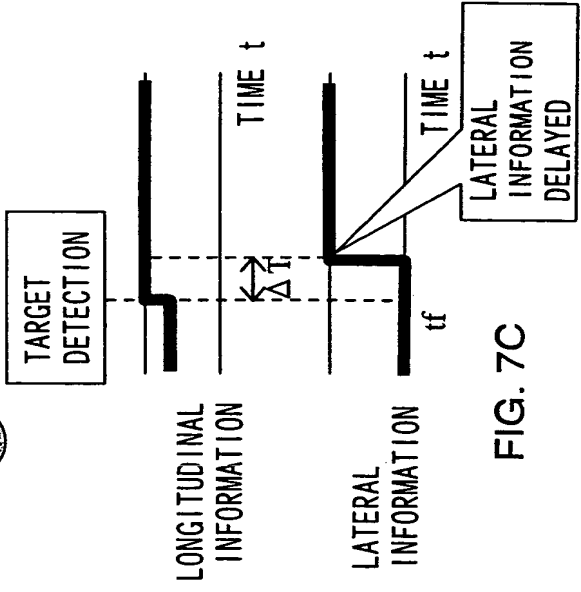


FIG. 7C

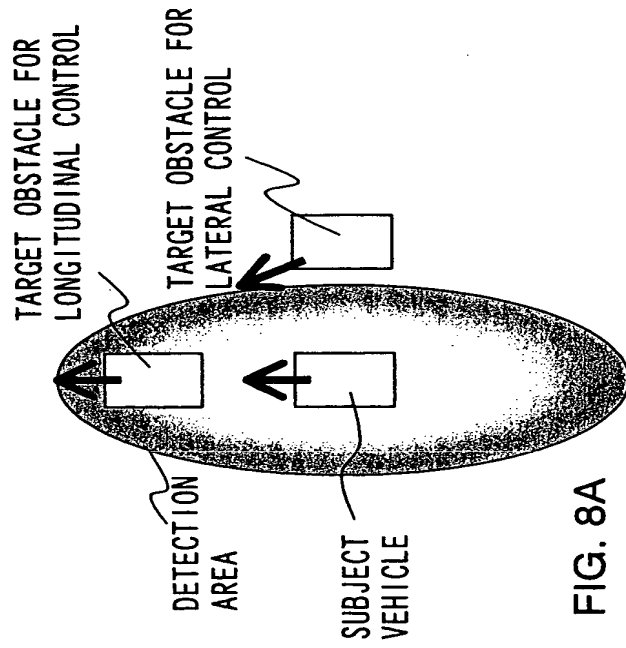


FIG. 8A

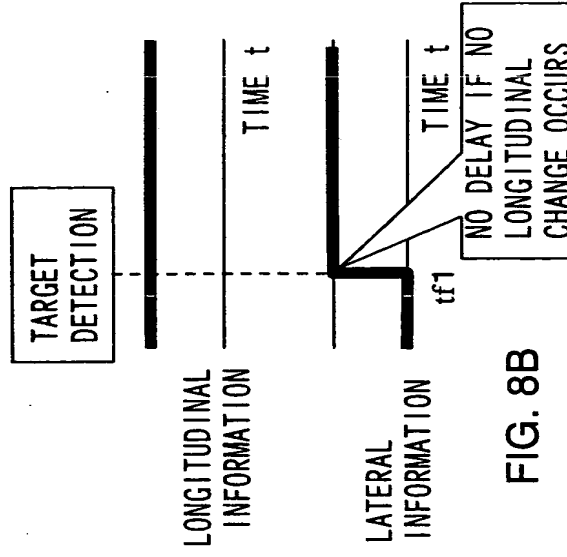


FIG. 8B

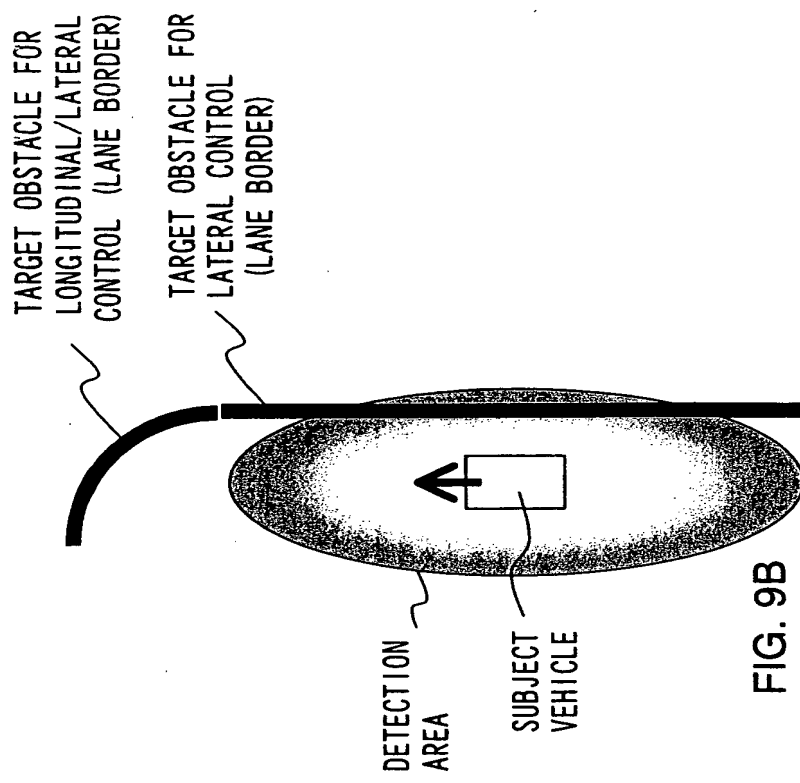


FIG. 9A

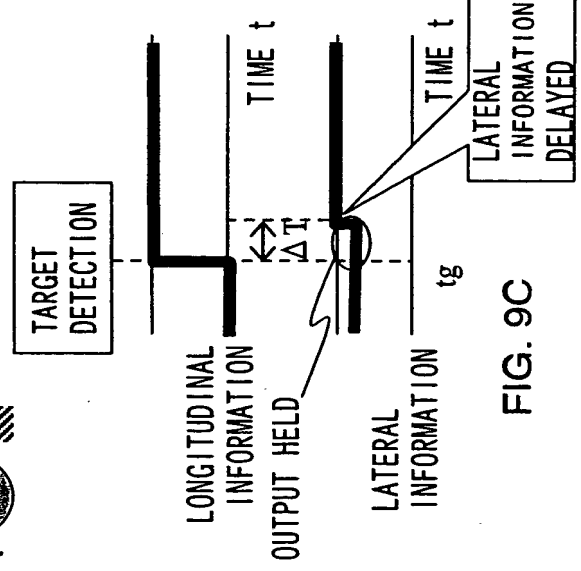


FIG. 9B

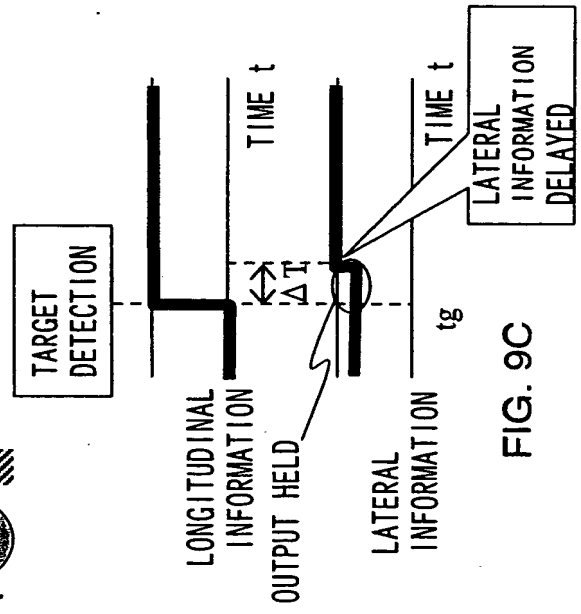


FIG. 9C

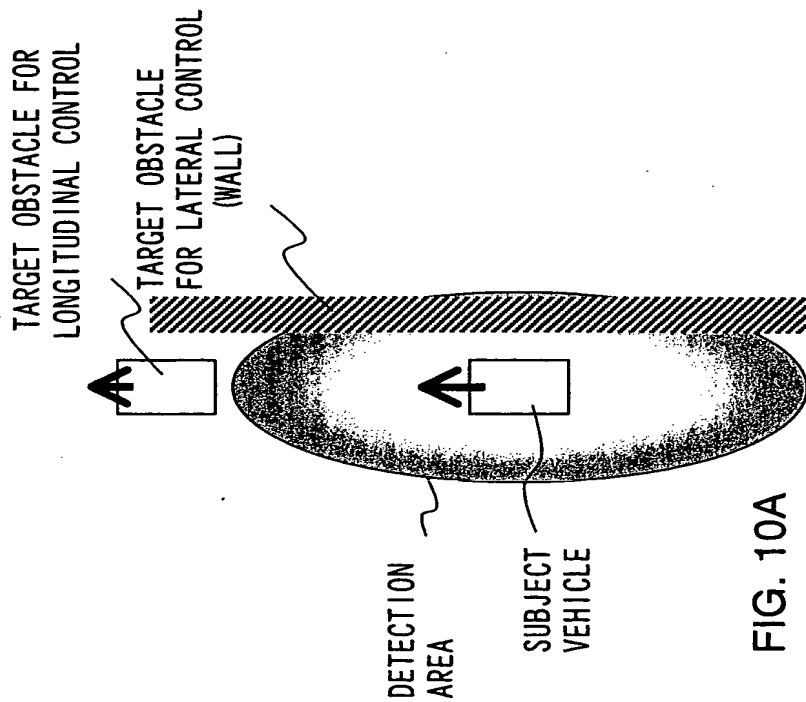


FIG. 10A

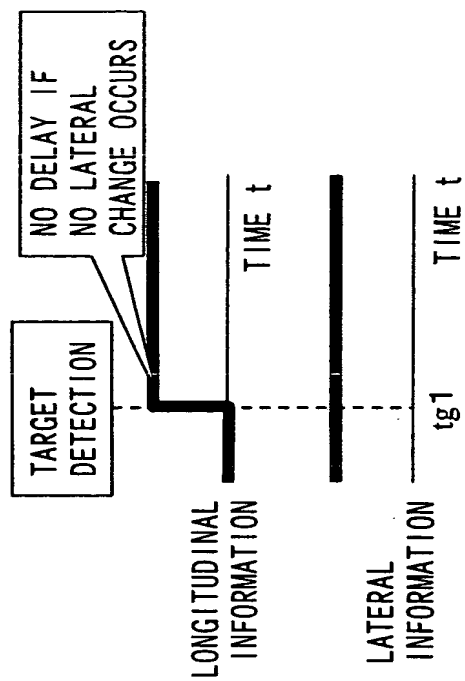
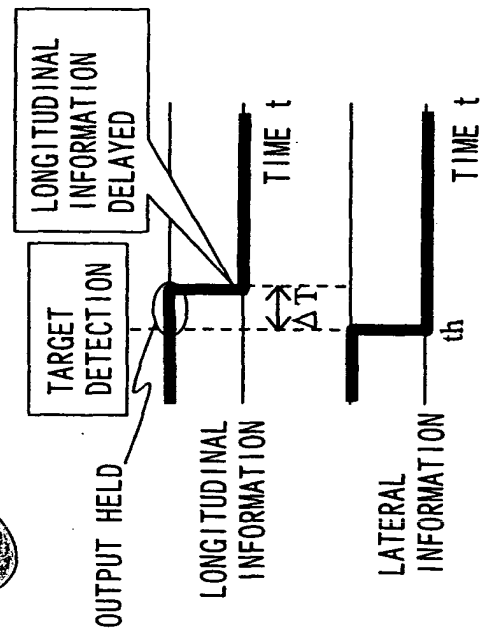
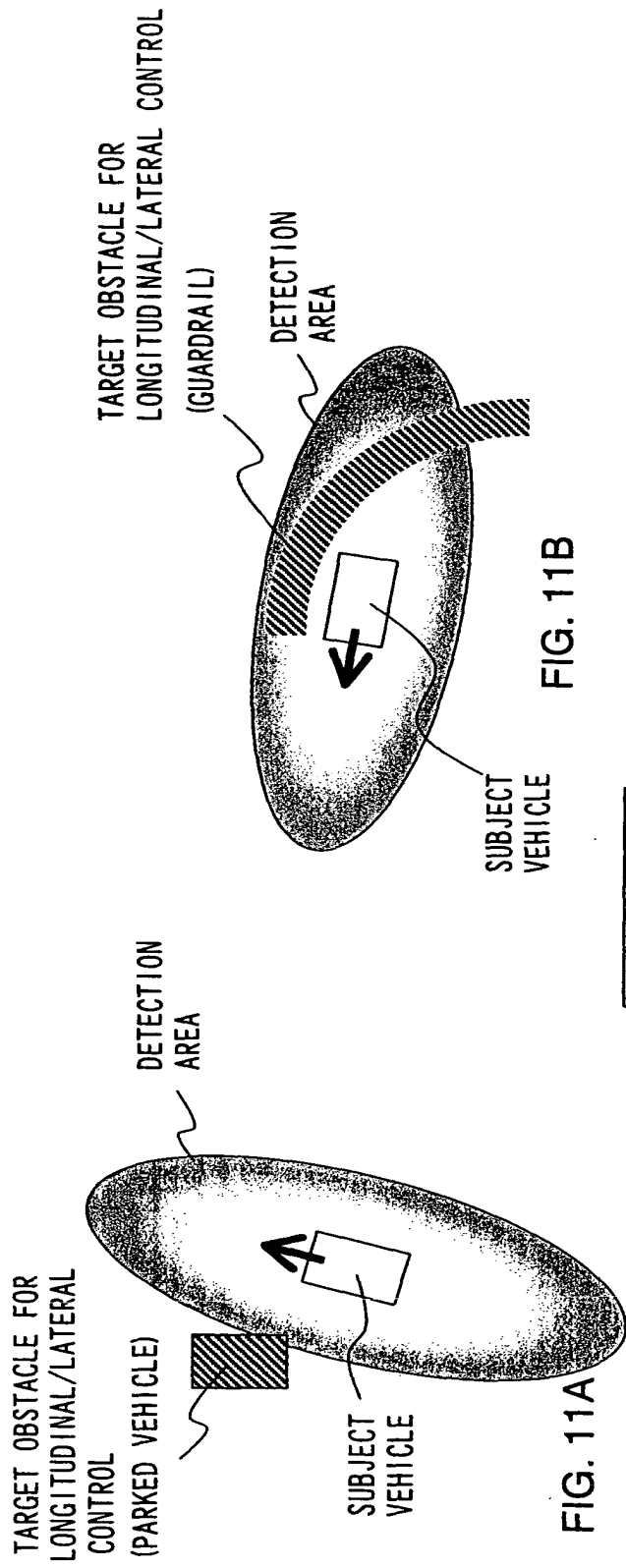


FIG. 10B



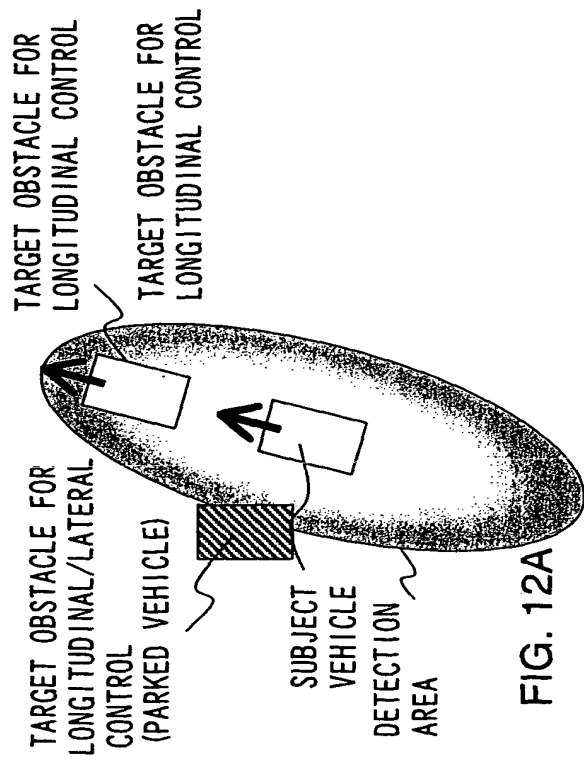


FIG. 12A

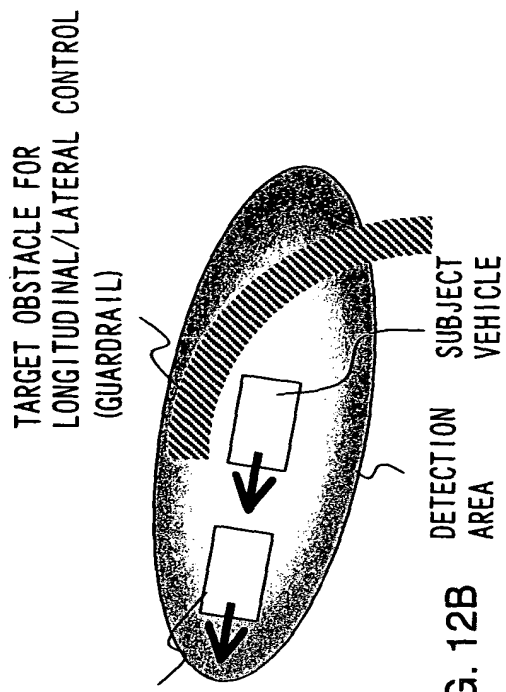


FIG. 12B

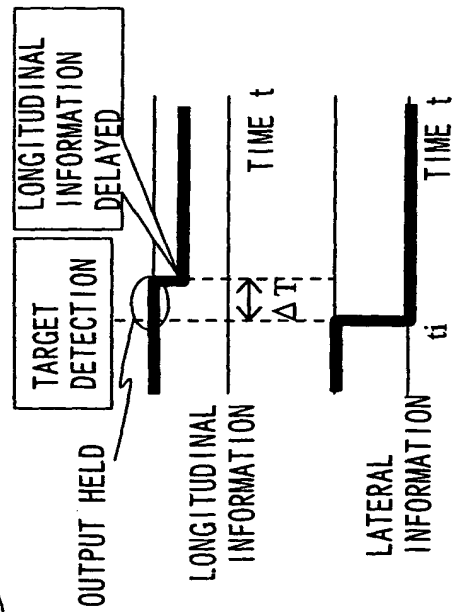


FIG. 12C

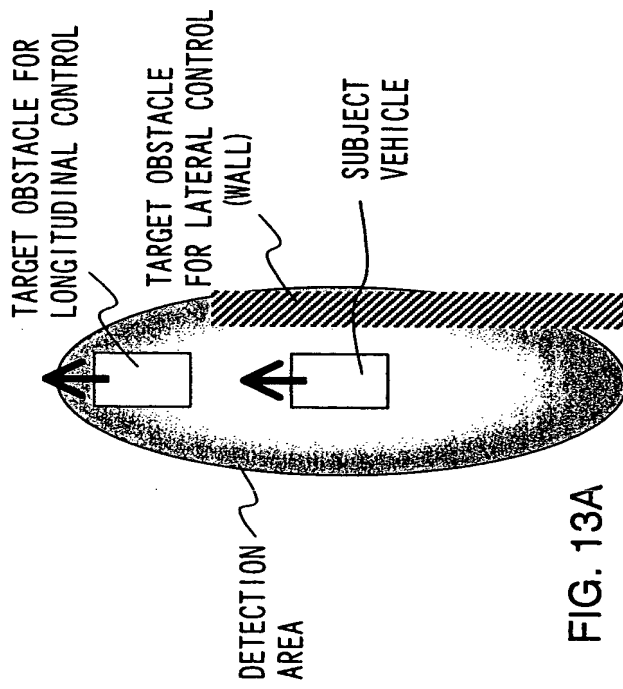


FIG. 13A

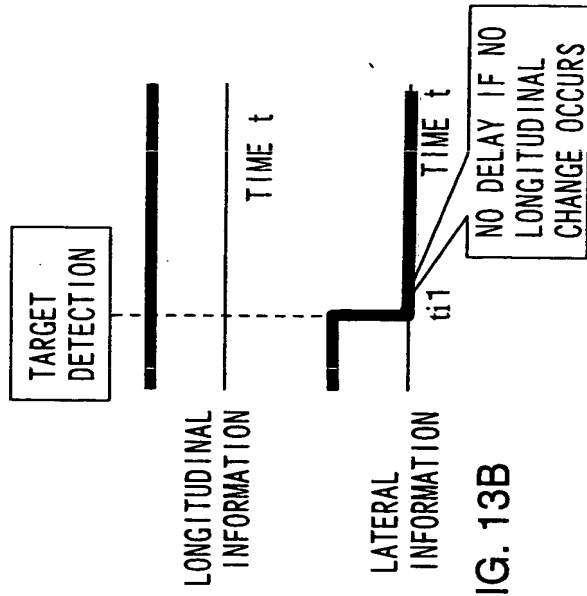


FIG. 13B

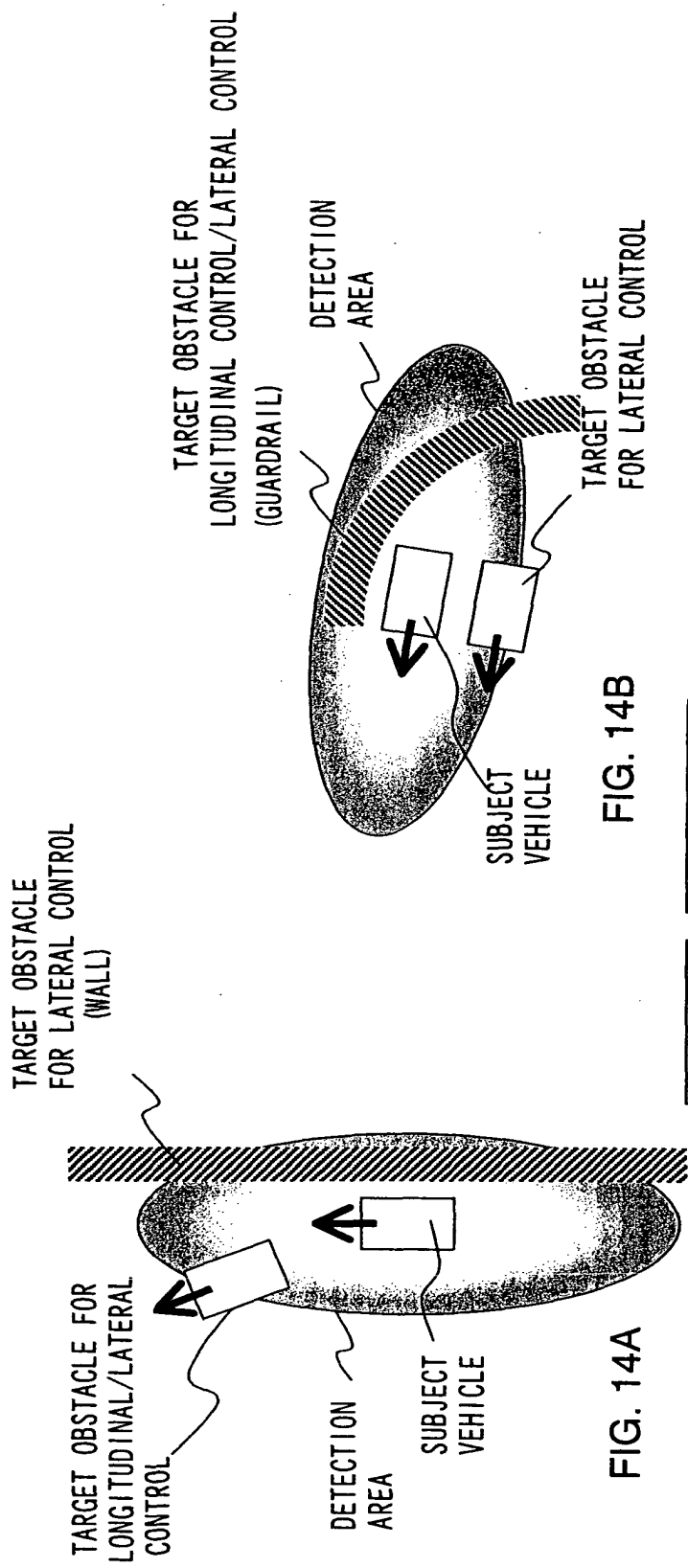


FIG. 14B

FIG. 14A

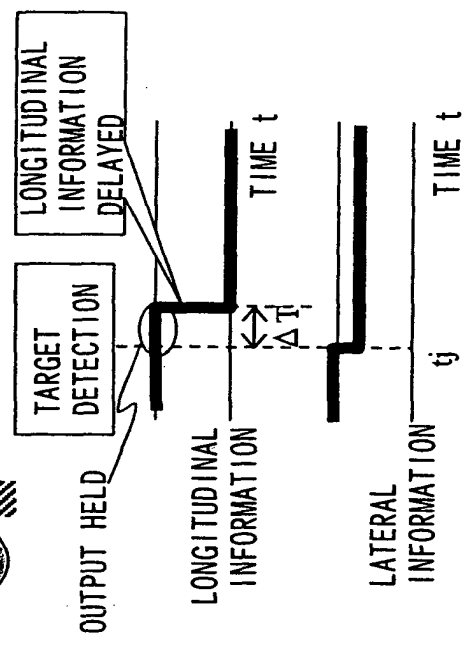


FIG. 14C

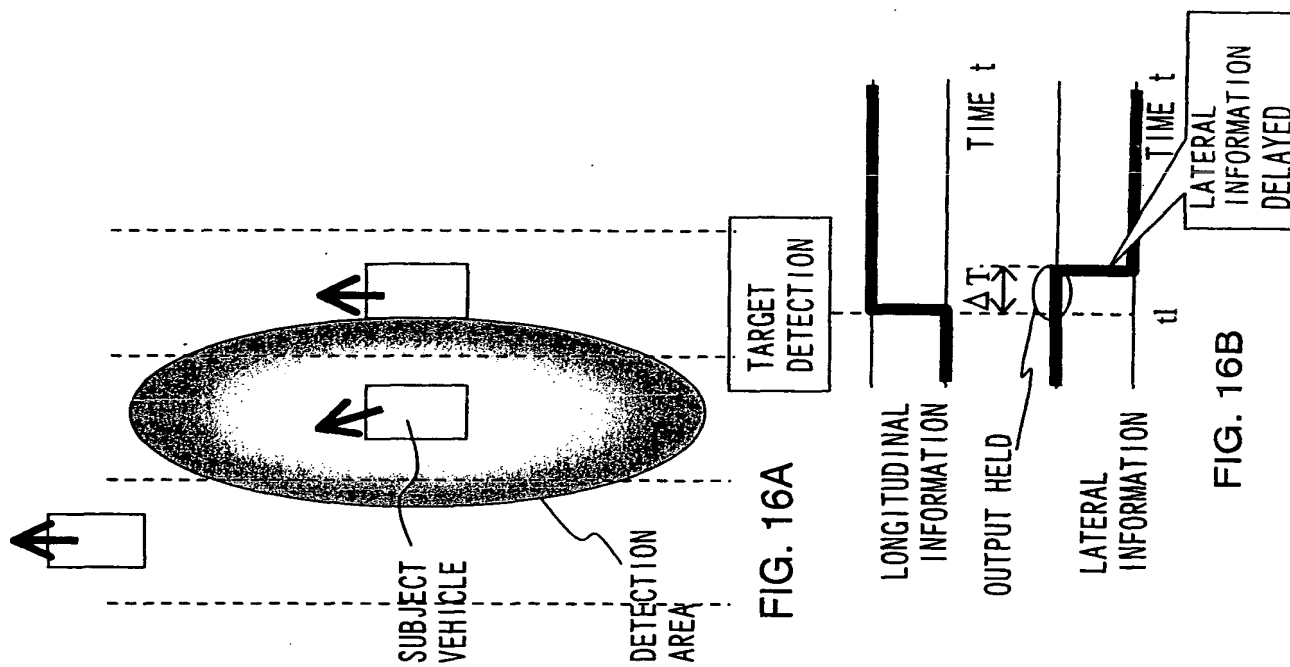


FIG. 16B

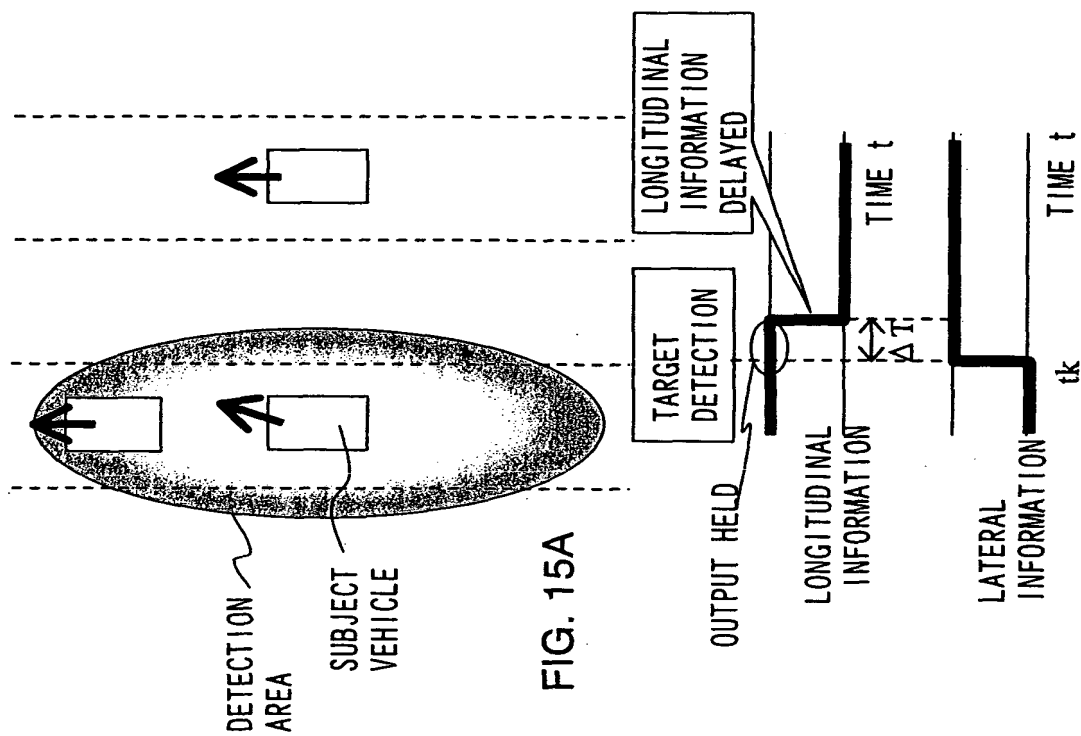


FIG. 15B

FIG. 17

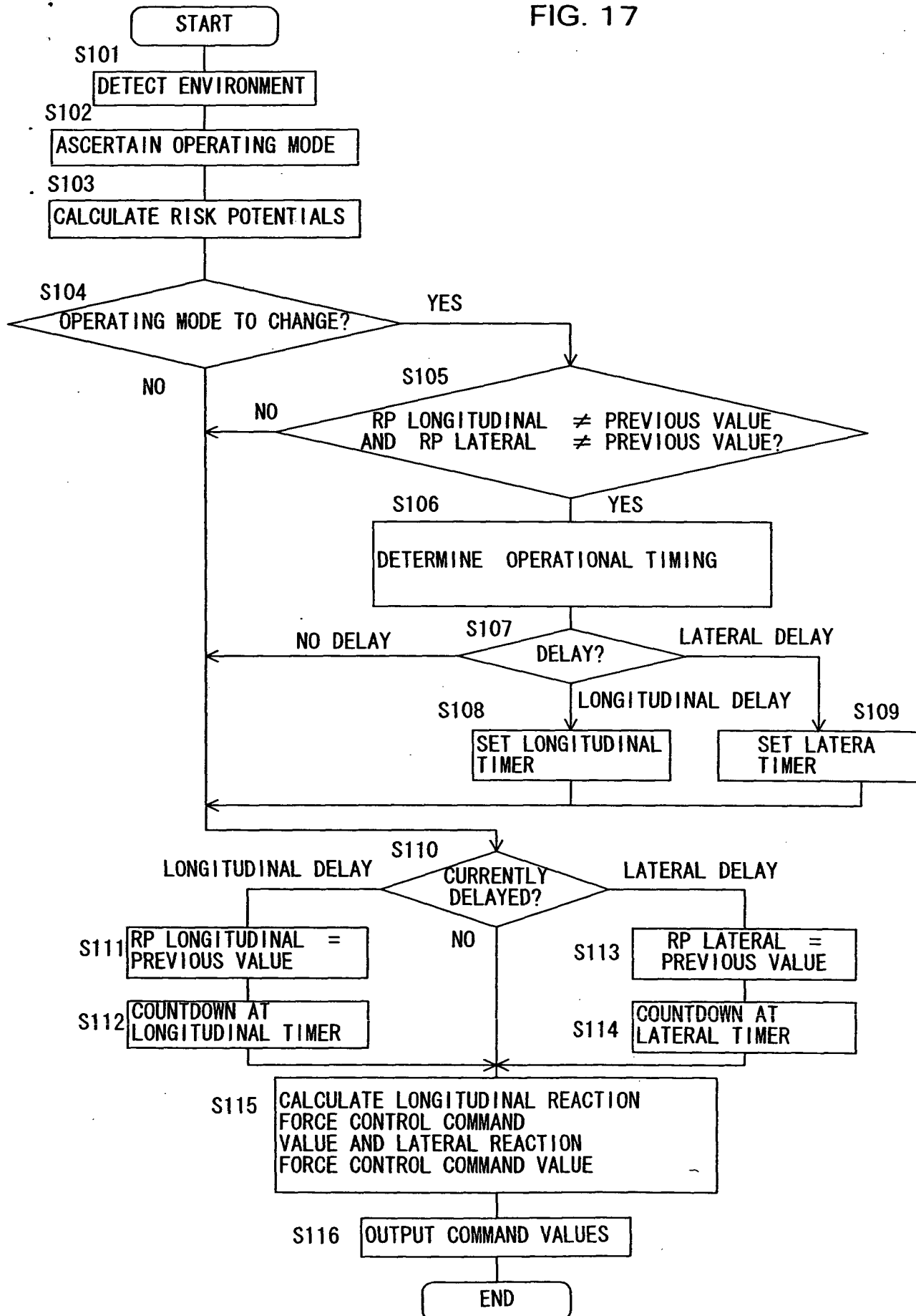


FIG. 18

INFORMATION CONVEYANCE MODE BEFORE AND AFTER STATUS TRANSITION			OUTPUT TIMING FOR INFORMATION CONVEYANCE UPON STATUS TRANSITION			LENGTH OF DELAY
BEFORE	→	AFTER	LONGITUDINAL		LATERAL	
			SIMULTANEOUS	DELAYED	SIMULTANEOUS	DELAYED
NO		LONGITUDINAL				
INFORMATION	→	+ LATERAL	○			○
LONGITUDINAL		NO		○	○	
+ LATERAL		INFORMATION				
OTHERS			○		○	
						ΔT
						$w1\Delta T$
						0

FIG. 19

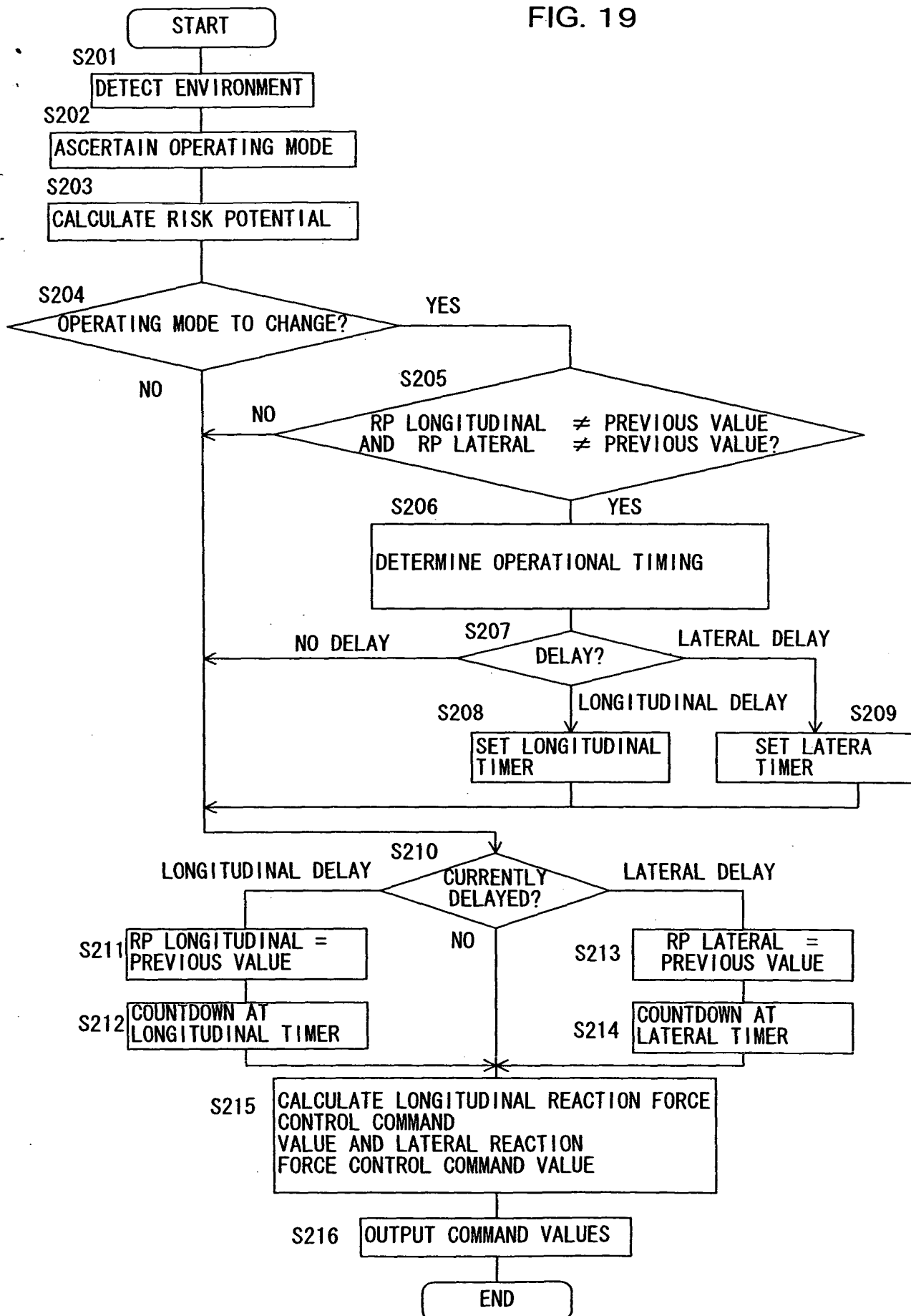


FIG. 20

INFORMATION CONVEYANCE MODE BEFORE AND AFTER STATUS TRANSITION		OUTPUT TIMING FOR INFORMATION CONVEYANCE UPON STATUS TRANSITION				LENGTH OF DELAY
BEFORE	→ AFTER	LONGITUDINAL		LATERAL		
NO INFORMATION	LONGITUDINAL + LATERAL	○			○	ΔT
LONGITUDINAL	LONGITUDINAL + LATERAL	○			○	$W1\Delta T$
LATERAL	LONGITUDINAL + LATERAL	○			○	$W1\Delta T$
LONGITUDINAL + LATERAL	NO INFORMATION		○	○		$W2\Delta T$
LONGITUDINAL + LATERAL	LONGITUDINAL			○	○	$W3\Delta T$
LONGITUDINAL + LATERAL	LATERAL			○	○	$W3\Delta T$
LONGITUDINAL	LATERAL			○	○	$W4\Delta T$
LATERAL	LONGITUDINAL	○			○	$W4\Delta T$
OTHERS		○			○	0